



	ELMo					ELMo		
TASK	PREVIOUS SOTA		OUR BASELINI	ELMO + E baseline	INCREASE (ABSOLUTE/ RELATIVE)	GloVe	Source	Nearest Neighbors playing, game, games, played, players, plays, player, Play, football, multiplayer
	Liu et al. (2017) Chen et al. (2017) He et al. (2017) Lee et al. (2017) Peters et al. (2017) McCann et al. (2017) ing: 1B words of tex			85.8 88.7 \pm 0.17 84.6 70.4 92.22 \pm 0.10 54.7 \pm 0.5 news, etc.)	4.7 / 24.9% 0.7 / 5.8% 3.2 / 17.2% 3.2 / 9.8% 2.06 / 21% 3.3 / 6.8%	biLM	Chico Ruiz made a spec- tacular <u>play</u> on Alusik 's grounder {} Olivia De Havilland signed to do a Broadway <u>play</u> for Garson {} earest neighbors of word	 Kieffer , the only junior in the group , was commended for his ability to hit in the clutch , as well as his all-round excellent play . {} they were actors who had been handed fat roles in a successful play , and had talent enough to fill the roles competently , with nice understatement .
	= sentiment, SQuAE gains across many		ig later)	Peter	rs et al. (2018)			Peters et al. (2018)

Ģ	ELMo
•	Highly flexible: can use as an embedding layer for nearly any task
•	Can be big and slow: big LSTMs can suck up GPU memory
•	Strictly better than word2vec if you can afford it
•	AllenNLP: calling ELMo is just one line, plenty of models for different tasks built on top of it
	Peters et al. (2018)